US EPA RECORDS CENTER REGION 5
474897

REMEDIAL ACTION PLAN

CHEMCENTRAL/DETROIT'S FACILITY

ROMULUS, MICHIGAN

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PURGE WELL INSTALLATION

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Presented to the U.S. Environmental Protection Agency
and the State of Michigan Department of Natural Resources

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September, 1983

PURGE WELL INSTALLATION

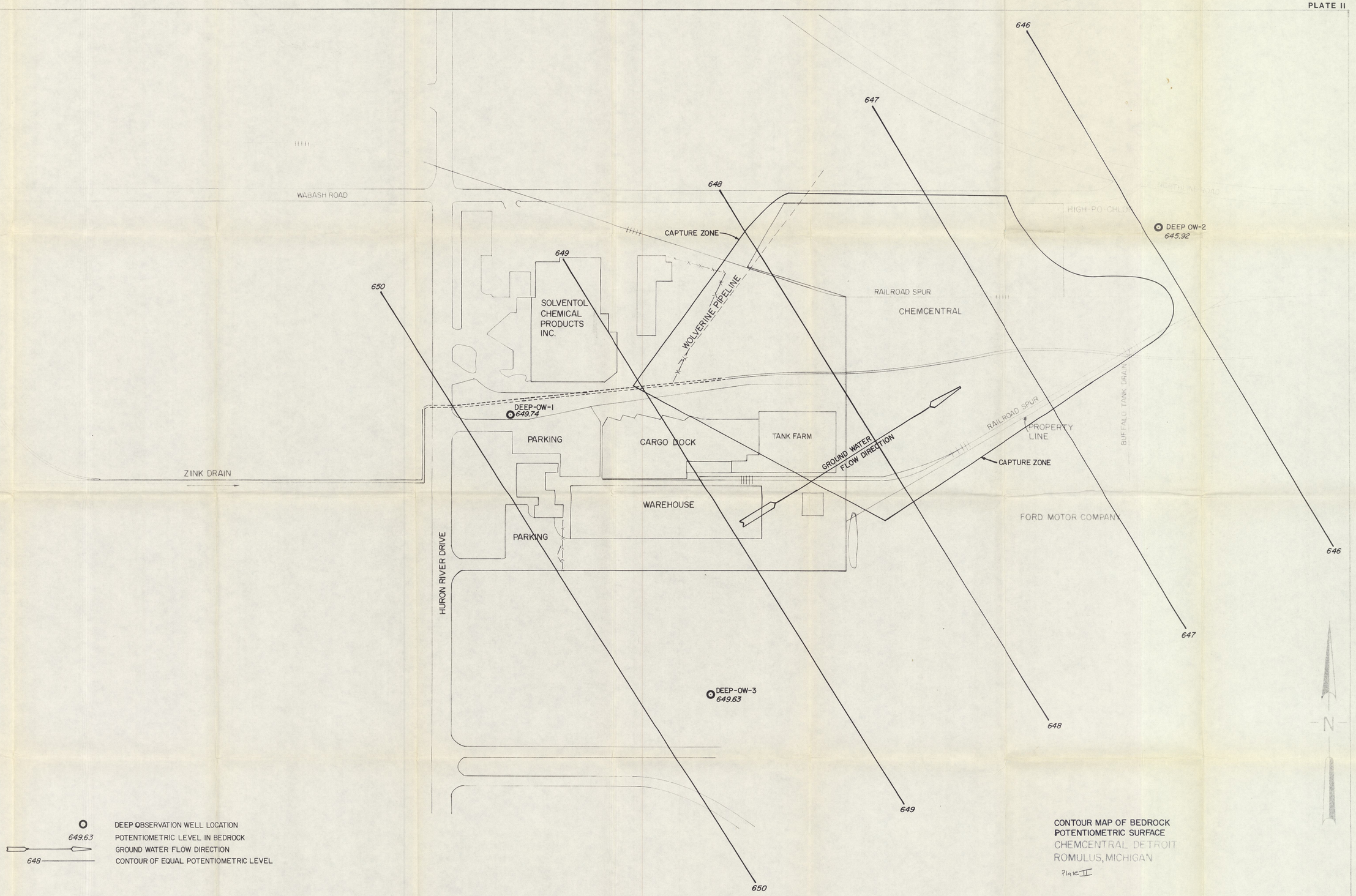
SECTION XI - REMEDIAL ACTIONS

Paragraph 1.d.

The ground-water capture and removal system has been installed as outlined in Appendix F of the Consent Judgment. The as-drilled locations of the purge wells (PW's) are presented on Plate II. The system as installed varies from the specifications of Appendix F on two points. First, with the exception of PW-12, the wells are fully screened over the saturated thickness of the water-table aquifer as opposed to the two-foot screened interval specified in Appendix F. Screened intervals were based on the static water level data of April 15, 1982 as presented in "Addendum, Phase IV Report," issued by Keck Consulting Services, Inc. (KCS) on May 7, 1982. This change was made to permit capture of the immiscible second phase suspected to occur at some locations at the top of the water-table aquifer.

The second variation is that the wells, again with the exception of PW-12, are not gravel packed. Aquifer testing using the first two wells installed (PW's 1 and 12) indicated that, due to the fine-grained nature of the sediments of the water-table aquifer, the gravel pack was actually reducing well efficiency, contrary to expectations. PW-12 was not

changed to the revised configuration because it appears to be efficient enough as is and due to the low contaminant concentrations present in that area. PW's 13 and 14 were installed later than PW's 1 through 12 because they are located on the property of Solventol as shown on Plate II. This fact required that an easement be obtained from Solventol to permit the installation. These two wells are in the process of being wired and connected to the header system. After connection, the aquifer testing involving these two wells will be conducted. The wells will be incorporated into the capture system following such testing.



O DEEP OBSERVATION WELL LOCATION

649.63 POTENTIOMETRIC LEVEL IN BEDROCK

GROUND WATER FLOW DIRECTION

648 CONTOUR OF EQUAL POTENTIOMETRIC LEVEL

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CONTOUR MAP OF BEDROCK POTENTIOMETRIC SURFACE
CHEMCENTRAL DETROIT
ROMULUS, MICHIGAN

Plate II

1"=100 scale 100 0 100 200 feet

DATE 2/24/84

ADAPTED FROM MICHIGAN DNR 1978 AERIAL PHOTOGRAPHY 4/13/82 by KECK unpublished